



**RadMed2023**  
Radiation in Medicine Courses & Workshops

# Safety, Protection, Bio-Dosimetry and Emergency Preparedness

**12 - 16 February 2023**  
Post Graduate Centre, KFSHRC, Riyadh



**Scientific Track Directors: Dr. Ghazi Alsbeih,  
Dr. Mehenna Arib and Mr. Omar Noor**



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FOR REGISTRATION



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FOR INFORMATION

# Program Schedule

	Day 1: Sunday, 12 February 2023 Radiation Emergency Preparedness	Day 2: Monday, 13 February 2023 Radiation Protection	Day 3: Tuesday, 14 February 2023 Radiation Protection	Day 4: Wednesday, 15 February 2023 Laboratory Safety & Bio-Dosimetry	Day 5: Thursday, 16 February 2023 Workshops
<b>SESSION 1</b>	<b>Moderator: Dr. Mehenna Arib</b>	<b>Moderator: Dr. Mehenna Arib</b>	<b>Moderator: Dr. Belal Moftah</b>	<b>Moderator: Dr. Ghazi Alsbeih</b>	<b>Radiobiology &amp; Biodosimetry</b> Coordinator: Najla Al-Harbi <b>SESSION 1</b> (9:00 AM) Radiobiology Workshop 1 - Ms. Bin Judia & Ms. Alghamdi (9:40 AM) Biodosimetry Workshop 1 - Ms. Al-Harbi & Dr. Alsbeih (10:20 AM) Morning Break (10:35 AM) Radiobiology Workshop 2 - Ms. Al-Harbi & Ms. Alzeer (11:15 AM) Biodosimetry Workshop 2 - Dr. Alsbeih & Dr. Al-Hadyan
09:00 AM - 09:40 AM	Welcome Note & Introduction to Health Effects of Ionizing Radiation - Dr. Alsbeih & Dr. Arib	Radiation Protection Principles & Program- Dr. Moftah	Radiation Protection in Diagnostic Radiology - Mr. Noor	Introduction to Laboratory Safety - Dr. Alsbeih	
09:40 AM - 10:20 AM	Radiation Emergencies: Scope of the Problem - Dr. Shubayr	(9:40AM-10:15AM) Protection Against Radiation - Dr. Arib	The Role of SFDA in Regulating Radiation Emitting Devices National Diagnostics Reference Levels (NDRs) - Eng. Alothaim & Ms. Alshamsi	Laboratory Safety Standard - Dr. Aldayel	
10:20 AM - 10:35 AM	Morning Break	<b>(10:15AM-10:35AM) Opening Ceremony</b>	Morning Break	Morning Break	
<b>SESSION 2</b>	<b>Moderator: Dr. Ghazi Alsbeih</b>	<b>Moderator: TBA</b>	<b>Moderator: Mr. Ahnaf Arafah</b>	<b>Moderator: Dr. Farhatullah Syed</b>	<b>SESSION 2</b>
10:35 AM - 11:15 AM	Major Nuclear & Radiological Accidents & Lessons Learned - Dr. Moftah	International Chain of Radiation Dosimetry - Dr. Arib	(10:35AM-11:05AM) Nuclear Medicine Physics - Mr. Almazrou	Chemical Safety - Mr. Almulhim	(10:35 AM) Radiobiology Workshop 2 - Ms. Al-Harbi & Ms. Alzeer (11:15 AM) Biodosimetry Workshop 2 - Dr. Alsbeih & Dr. Al-Hadyan <b>Radiation Protection</b> <b>SESSION 1</b> (9:00 AM) Radiation Detection & Measurement Workshop 1 (Photon Beams) - Ms. Alhumaidan & Ms. Aldosari (10:00 AM) Radiation Detection & Measurement Workshop 2 (Neutron Beams) - Mr. Alhamdan & Dr. Arib
11:15 AM - 12:00 PM	Hospital Preparedness and Management of Persons Accidentally Exposed - Dr. Aldehaim	Personal Dosimetry - Mr. Al-Gain	(11:05AM-11:35AM) Radiation Protection in Nuclear Medicine - Mr. Arafah (11:35AM-12:00PM) Radiation Protection in Radiotherapy - Dr. Moftah	Biological and Recombinant DNA Safety - Dr. Syed	
12:00 PM - 01:30 PM	Prayer & Lunch Break	Prayer & Lunch Break	Prayer & Lunch Break	Prayer & Lunch Break	
<b>SESSION 3</b>	<b>Moderator: Dr. Nasser Shubayr</b>	<b>Moderator: Mr. Omar Noor</b>	<b>Moderator: Mr. Ibrahim Al-Gain</b>	<b>Moderator: Dr. Falah Almohanna</b>	
01:30 PM - 02:00 PM	The Role of the General Directorate of Civil Defense in Managing Radiological Emergencies - Colonel Alotaibi	Shielding of Nuclear Medicine and Radiopharmaceutical Therapy Facilities - Dr. Amurao	Technical Regulations – Radiation Safety - Mr. Al-Gain	Safety in Laboratory Animal Facilities - Dr. Almohanna	
02:00 PM - 02:30 PM	Terrorism Perspective and Malicious Act Scenarios - Dr. Shubayr		Technical Regulations – Transportation of Radioactive Material - Mr. Mayhoub	Radiation Safety in Research Laboratory - Mr. Noor	
02:30 PM - 03:00 PM	Chemical, Biological, Radiological and Nuclear (CBRN) Defense - Mr. Barnawi		Technical Regulations – Management of Radioactive Waste - Mr. Mayhoub	Common Laboratory Safety Rules - Dr. Alsbeih	
03:00 PM - 03:30 PM	NRRC Oversight Role in Radiological Emergencies Management - Eng. Alrajhi		Discussion and Q&A Session	Technical Regulations – Security of Radioactive Materials - Mr. Al-Gain	Questions & Answers - Dr. Alsbeih & Mr. Noor
03:30 PM - 04:00 PM	Prayer & Afternoon Break	Prayer & Afternoon Break	Prayer & Afternoon Break	Prayer & Afternoon Break	
<b>SESSION 4</b>	<b>Moderator: Mr. Hassan Alghamdi</b>	<b>Moderator: Mr. Omar Noor</b>	<b>Moderator: Mr. Fareed Mayhoub</b>	<b>Moderator: Dr. Khaled Al-Hadyan</b>	
04:00 PM - 04:30 PM	Saudi Emergency Response Preparedness Network - Dr. Shubayr	Shielding of SPECT/CT, PET/CT, MRI Facilities - Dr. Amurao	(4:00 PM - 4:45 PM) Radiation Emergency Response Planning - Dr. Alsbeih	Cytogenetic Dose Assessment in Radiation Accident - Dr. Alsbeih	
04:30 PM - 05:00 PM	Radiation Safety and Monitoring During Radiological Emergency - Mr. Alghamdi	(4:30 PM - 4:45 PM) Q&A Session - Dr. Amurao		National Biodosimetry Laboratory in Saudi Arabia - Dr. Al-Hadyan	

## Speakers



**Fouad Aldayel, MD**  
Chairman, Pathology & Laboratory Medicine  
KFSH&RC, Riyadh, KSA



**Mohammed Aldehaim, MD**  
Consultant, Radiation Oncology Dept., Oncology Centre, KFSH&RC, Riyadh, KSA



**Ibrahim Al-Gain, MSc**  
Health Physicist  
Biomedical Physics Dept., KFSH&RC, Riyadh, KSA



**Hassan Al-Ghamdi, MSc**  
Health Physics Consultant,  
Johns Hopkins Aramco Healthcare, Dhahran, KSA



**Khaled AlHadyan, PhD**  
Post-doctoral fellow  
Biomedical Physics Dept., KFSH&RC, Riyadh, KSA



**Refaat Al-Mazrou, MSc**  
Deputy Chairman  
Biomedical Physics Dept., KFSH&RC, Riyadh, KSA



**Falah Almohanna, DVM**  
Scientist  
Comparative Medicine  
KFSH&RC, Riyadh, KSA



**Turki Almulhim, BSc**  
Deputy Safety Officer, Safety & Security, KFSH&RC, Riyadh, KSA



**Saty Alotaibi (Colonel), MSc**  
Director, Radiological Hazards Civil Defense  
Riyadh, KSA



**Eng. Fahad Alothaim**  
Head, Investigation & Follow up Section, Saudi Food & Drug Authority (SFDA), Riyadh, KSA



**Eng. Abdulmajeed Alrajhi**  
Nuclear Emergency Operations Center Manager, Nuclear & Radiological Regulatory Commission, Riyadh, KSA



**Ghazi Alsbeih, PhD**  
Principal Scientist  
Biomedical Physics Dept., KFSH&RC, Riyadh, KSA



**Alanood Alshamsi, MSc**  
Senior Control & Alerts Specialist, Saudi Food & Drug Authority (SFDA), Riyadh, KSA



**Maxwell Amurao, PhD**  
Director, Office of Radiation Safety, Washington University in St. Louis, Missouri, USA



**Ahnaf Arafah, MSc**  
Senior Radiology Specialist, Radiology Dept., KFSH&RC, Riyadh, KSA



**Mehenna Arib, PhD**  
Senior Health Physicist  
Biomedical Physics Dept., KFSH&RC, Riyadh, KSA



**Ayman Barnawi, CEM**  
Senior Crisis & Disaster Coordinator, Crisis & Disaster Management  
KFSH&RC, Riyadh, KSA



**Fareed Mayhoub, MSc**  
Health Physicist  
Biomedical Physics Dept., KFSH&RC, Riyadh, KSA



**Belal Moftah, PhD**  
Chairman  
Biomedical Physics Dept., KFSH&RC, Riyadh, KSA



**Omar Noor, MSc**  
Medical Physicist  
Biomedical Physics Dept., KFSH&RC, Riyadh, KSA



**Nasser Shubayr, PhD**  
Assistant Professor & Head, Radiological Sciences, College of Applied Medical Sciences, Jazan University, Jazan, KSA



**Farhatullah Syed, PhD**  
Senior Scientist, Stem Cell & Tissue Re-Engineering Program, KFSH&RC, Riyadh, KSA